Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

- 1-34. (Canceled)
- 35. (Previously Presented) An adaptive sensor comprising: a plurality of detectors; and wherein:
 - each detector comprises an adjustable filter; and
 each adjustable filter is adjustable independent of an
 adjustment of another filter of a detector of the
 plurality of detectors.
- 36. (Previously Presented) The sensor of claim 35, wherein the plurality of detectors is situated in a sealed package.
- 37. (Previously Presented) The sensor of claim 36, wherein each detector further comprises an actuator connected to the adjustable filter.
- 38. (Previously Presented) The sensor of claim 37, wherein the actuator is an electrostatic actuator.

- 39. (Previously Presented) The sensor of claim 37, wherein each detector is an infrared light detector.
- 40. (Previously Presented) The sensor of claim 39, wherein the adjustable filter is a variable bandpass filter for infrared light.
- 41. (Currently Amended) The sensor of claim 36, wherein the adjustable filter is adjustable for [[a]] selecting a wavelength [[of]] from a plurality of wavelengths of light.
- 42. (Previously Presented) The sensor of claim 39, wherein the adjustable filter is for selecting a bandpass mode for infrared light.
- 43. (Previously Presented) The sensor of claim 39, wherein each detector of the plurality of detectors is a bolometer.
- 44. (Previously Presented) The sensor of claim 41, wherein each adjustable filter is a Fabry-Perot filter.
- 45. (Previously Presented) The sensor of claim 35, wherein the plurality of detectors is situated on a first wafer.

- 46. (Currently Amended) The sensor of claim 45, wherein the further comprising a second wafer, wherein the second wafer is a topcap situated on the first wafer thereby enclosing the plurality of detectors.
- 47. (Previously Presented) The sensor of claim 46, wherein the first and second wafers form an integrated vacuum package.
- 48. (Previously Presented) The sensor of claim 47, wherein the topcap comprises a light transmissive window.
- 49. (Currently Amended) A means for detecting comprising: a means for detecting light; and

wherein:

- the means for detecting light comprises a plurality of detectors;
- each detector of the plurality of detectors [[is]] comprises a variable wavelength filter; and
- the variable wavelength filter is adjustable independent of a variable filter of another detector of the plurality of detectors.

- 50. (Currently Amended) The means of claim 49, wherein the each detector comprises an actuator connected to the variable filter.
- 51. (Previously Presented) The means of claim 50, wherein the actuator is a capacitive actuator.
- 52. (Previously Presented) The means of claim 49, wherein the variable filter is adjustable to a narrow bandpass at a wavelength of light.
- 53. (Previously Presented) The means of claim 52, wherein the wavelength of light is selectable from a range of wavelengths between about one micron and thirteen microns.
- 54. (Previously Presented) The means of claim 49, wherein the means for detecting light is situated in a sealed enclosure.
- 55. (Previously Presented) A method for detecting comprising:

providing a plurality of detectors;

wherein:

each detector of the plurality of detectors comprises
 an adjustable light filter; and

- the filter is adjustable to a desired wavelength independently of at least another filter of a detector of the plurality of detectors.
- 56. (Previously Presented) The method of claim 55, further comprising situating the plurality of detectors in a sealed enclosure.
- 57. (Previously Presented) The method of claim 56, wherein the filter is electrostatically adjusted.
- 58. (Previously Presented) The method of claim 55, wherein the filter is attached to at least one leg spring for adjustment relative to an electrostatic force.
- 59. (Previously Presented) The method of claim 55, wherein the filter may be selectively adjusted to a wavelength of an infrared spectrum.
- 60. (Previously Presented) A sensor comprising: an array of detectors; and wherein:
 - each detector of the array of detectors comprises a tunable etalon; and

- the etalon is tunable to desired band of light for a detector of the array of detectors independently of another tunable etalon of a detector of the array of detectors.
- 61. (Currently Amended) The sensor of claim 60, wherein the array of detectors is enclosed \underline{in} a hermetically sealed package.
- 62. (Previously Presented) The sensor of claim 60, wherein the etalon comprises an actuator to tune the etalon.
- 63. (Previously Presented) The sensor of claim 62, wherein the actuator operates according to an electrostatic force.
- 64. (Previously Presented) The sensor of claim 60, wherein the etalon is situated on a set of leg springs for movement for tuning.
- 65. (Previously Presented) The sensor of claim 60, wherein the etalon is tunable to a wavelength of a plurality of wavelengths of light.
- 66. (Previously Presented) The sensor of claim 65, wherein:

the detector is a bolometer; and the etalon is a Fabry-Perot etalon.

- 67. (Previously Presented) The sensor of claim 61, wherein the hermetically sealed package comprises:
 - a topcap; and
 - a base; and

wherein the topcap is bonded to the base.

68. (Previously Presented) The sensor of claim 67, wherein the topcap and base are bonded on a die-to-die basis.